	Technical information - product	Number	IT.021
		Edited on	23/10/2020
		Revision	1.0
		AlphaThorix	

Three-layer, self-adhesive water insulation for protection of structures and buildings AlphaThorix


1. **Technical specification:** PN-EN 14909:2012 Flexible sheets for waterproofing. Plastic and rubber damp proof courses. Definitions and characteristics.
2. **Manufacturer/production site:** Alpha Dam Sp. z o.o., 87-208 Dębowa Łąka 45
3. **Product description:** A three-layer, durable and highly efficient EPDM hydroinsulation with a glass fibre core. Thanks to the use of innovative technology, the AlphaThorix membrane has very solid mechanical properties and is extremely resistant to UV radiation and ozone.
4. **Intended use and the scope of application:**

The EPDM product is intended as a sealing, as a water-tight layer protecting structures and buildings against the penetration of water, moisture and warm air. AlphaThorix may also be used to protect terraces and balconies against water and moisture.

5. Information for the user:

- 5.1. The application should be performed according to the construction art, the current technical knowledge and the assembly manual.
- 5.2. The AlphaThorix membrane should be applied under conditions allowing standard masonry works, do not apply at temperatures below -5°C.
- 5.3. AlphaThorix has a 1mm thick layer of butyl glue. This is an adequate amount of glue, enabling the tape to be glued even to uneven surfaces or to seal small cracks. Butyl glue may be used on porous surfaces and surfaces absorbing moisture.
- 5.4. Butyl glue remains permanently "alive". This means that contrary to other glues, butyl does not cure in air, subjected to extreme and variable temperatures, for a period of over 15 years and remains flexible.
- 5.5. Prepare the surface before gluing. The use of special primer for butyl enables excellent adhesion to be achieved even on such a porous substrate as gas-hollow concrete. The use of primer according to the technical instructions of the manufacturer is particularly required in the case of application on vertical surfaces.
- 5.6. The substrate should be dry and free of dirt and dust. The substrate should be free of strain, blisters, folds, sharp edges, deleterious cracks, protrusions, coarse areas, etc.
- 5.7. Remove the protective film from the bottom side of the tape before gluing.
- 5.8. Next, apply the AlphaThorix tape and roll over with a rubber roller to remove the remaining air bubbles.
- 5.9. In a combination with waterproofing EPDM hydroinsulation for roof coverings AlphaThor, water-tight connection between AlphaThor and AlphaThorix by welding with hot air is recommended. The welding should be performed from the butyl-free, top side. In order to do the welding, first glue the AlphaThorix tape, followed by a weld with application of the AlphaThor hydroinsulation on the top. The overlap should be 40 mm maximum.

6. Seasoning

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The maximum storage period of AlphaThorix in an original packaging is 24 months from the production date.

7. Storage:

AlphaThorix rolls should be stored and transported in an cold and dry atmosphere (+5°C to +25°C), in standing position. Do not stack pallets.

8. Warranty:

The warranty includes water tightness of the product for 10 years from the purchase date.

The conditions of warranty application include:

1. Use of the product according to the Technical Information about the product.
2. Product storage according to the Technical Information about the product.
3. The instructions provided above base on the current state of the knowledge, experience and study results. The instructions do not result in legal responsibility and do not exempt the contractor from responsibility for the performed work and the need to observe the conditions present at the construction site. During work, the relevant standards and generally accepted rules of construction art should be observed, together with conditions at the construction site.
4. Documentation of the purchase according to the purchase invoice and the product ID.


9. Information about the CE mark:

According to the requirements resulting from the PN-EN 14909:2012 standards



10. Product specification:

Main characteristics	Unit	Functional properties
Visible faults	-	none
Roll length, with butyl	m	10 (0% to +5%)
Roll length, without butyl	m	20 (0% to +5%)
Width	m	0.1 – 1.01 (0% to +1%)
Linearity	mm	< 30/10 m
Thickness with the butyl tape	mm	0.800 (±5%)

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Thickness without the butyl tape	mm	1.750 (±5%)
Specific weight with the butyl tape	kg/m ²	0.820 (±5%)
Specific weight without the butyl tape	kg/m ²	2.675 (±5%)
Water tightness	2 kPa, method A	Water-tight
Fire reaction	Class	E
Shearing resistance of joints		
- Longitudinal overlap	N/50 mm	≥ 100
- Transverse overlap	N/50 mm	≥ 95
Impact resistance	mm, method A	≥ 150
Resistance to static loads	kg, method B	≥ 5
Tearing resistance:		
- Longitudinal direction:	N	≥ 220
- Transverse direction:	N	≥ 250
Resistance to bending at low temperatures	°C	≤ -40
Durability		
- Water tightness after artificial ageing	1000 h	Meets the test requirements
- After contact with bases	160 MJ/m ²	
Resistance to steam penetration:		
1. Steam jet density:	g[kg/(m ² s)]	1.66 x 10 ⁻⁸
2. Diffusion resistance coefficient:	μ	29 793

Signed on behalf of the manufacturer:

(Majek Iwona)

Iwona Majek – Representative

Dębowa Łąka, 23rd October 2020